

IN THE CLAIMS:

Please amend Claims 5, 19, 20 and 27 to 34 as shown below. The claims, as pending in the subject application, now read as follows:

1. (Original) An information processing apparatus capable of instructing a printing device to execute a print job via a predetermined network, comprising:

- a reader which reads out data from a detachable storage medium;
- a print job issuing unit which issues a print job, for which a suspension attribute is set, to said printing device;
- a client authentication controller which, in the case in which user authentication based upon authentication information peculiar to a user read by said reader is successful, performs control such that issuance of a print job by said job issuing unit is made possible; and
- a writer which writes job designation information peculiar to the print job, which is returned from said printing device according to the issuance of the print job by said print job issuing unit, in the detachable storage medium.

2. (Original) An information processing apparatus according to Claim 1, wherein

- said print job issuing unit is capable of issuing a plurality of print jobs, and
- said reader writes job designation information peculiar to each of the plurality of print jobs, which are returned from said printing device according to the issuance of the plurality of print jobs by said print job issuing unit, in the detachable storage medium.

3. (Original) An information processing apparatus according to Claim 1, wherein said print job issuing unit uses the Internet Printing Protocol as a communication procedure in print job issue and acceptance processing.

4. (Original) An information processing apparatus according to Claim 1, wherein the job designation information includes a Job-URI specifying the print job.

5. (Currently amended) An information processing apparatus according to Claim 1, wherein said client authentication controller inquires success or failure of user authentication from an authentication server, with which said client ~~printer~~ authentication controller can communicate via the network, according to the authentication information peculiar to the user.

6. (Original) An information processing apparatus according to Claim 5, wherein said information processing apparatus has a password input unit which inputs a password peculiar to the user, and

said client authentication controller inquires success or failure of user authentication from said authentication server according to the authentication information peculiar to the user read out from the detachable storage medium and the password peculiar to the user inputted by said password input unit.

7. (Original) An information processing apparatus capable of instructing a printing device to execute a print job via a predetermined network, comprising:

a print job issuing unit which issues a print job, for which a suspension attribute is set, to said printing device; and

a writer which writes a Job-URI specifying the print job, which is returned from said printing device according to the issuance of the print job by said print job issuing unit, in the detachable storage medium.

8. (Original) A printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to print processing, comprising:

a print job server which accepts the print job issued from said information processing apparatus and subjects the print job to print processing and which, in the case in which a suspension attribute is set in the print job, performs control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information replier which, in response to acceptance of the print job issued from said information processing apparatus, replies job designation information peculiar to the print job to said information processing apparatus;

a reader which reads data of a detachable storage medium;

a printer authentication controller which, in the case in which user authentication based upon authentication information peculiar to a user read out from the detachable storage medium by said reader is successful, controls permission to use said printing device; and

a job release controller which, in response to said reader reading out the job designation information peculiar to the print job from the detachable storage medium, performs control such that an instruction to release suspension of job processing is issued to said print job server.

9. (Original) A printing device according to Claim 8, wherein said print job server is capable of performing control such that a plurality of print jobs are held, and

said job release controller performs control such that first job designation information stored in the detachable storage medium is read out and an instruction to release suspension of job processing of a print job corresponding to a first job is issued and, in the case in which second job designation information is further stored in the detachable storage medium, second job designation information is successively read out and an instruction to release suspension of printing of a print job corresponding to a second job is issued.

10. (Original) A printing device according to Claim 8, wherein said print job server uses the Internet Printing Protocol as a communication procedure in print job issue and acceptance processing.

11. (Original) A printing device according to Claim 8, wherein the job designation information includes a Job-URI.

12. (Original) A printing device according to Claim 8, further comprising a printing device which executes print processing of a print job corresponding to the job designation information for which the instruction to release suspension of printing is issued by said job release controller.

13. (Original) A printing device according to Claim 12, wherein, after said printing device ends the print processing, said print job server issues an instruction to delete the job designation information corresponding to the print job, for which the print processing has ended, stored in the detachable storage medium.

14. (Original) A printing device according to Claim 12, wherein, after said printing device ends the print processing, the print job server deletes the print job for which the print processing has ended.

15. (Original) A printing device according to Claim 8, wherein said printer authentication controller controls permission to use said printing device by inquiring success or failure of user authentication from an authentication server, with which said printer authentication controller can communicate via the network, according to the authentication information peculiar to the user.

16. (Original) A printing device according to Claim 15, wherein said printing device has password input means which inputs a password peculiar to the user, and

said printer authentication controller controls permission to use said printing device by inquiring success or failure of user authentication from said authentication server according to the authentication information peculiar to the user read out from the detachable storage medium and the password peculiar to the user inputted by said password input means.

17. (Original) A printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to print processing, comprising:

a print job server which accepts the print job issued from said information processing apparatus and subjects the print job to print processing and which, in the case in which a suspension attribute is set in the print job, performs control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information replier which, in response to acceptance of the print job issued from said information processing apparatus, replies a Job-URI specifying the print job to said information processing apparatus;

a reader which reads data from and writes data in a detachable storage medium;  
and

a job release controller which, in response to said reader reading out the Job-URI peculiar to the print job from the detachable storage medium, performs control such that an instruction to release suspension of job processing is issued to said print job server.

18. (Original) A printing system which has an information processing apparatus capable of instructing a printing device to execute a print job via a predetermined network and a printing device capable of subjecting the print job, which said information processing apparatus instructed said printing device to execute, to print processing,

wherein said information processing apparatus comprises:

a first reader which reads data of a detachable storage medium;

a print job issuing unit which issues a print job to said printing device with a suspension attribute set to the print job;

a client authentication controller which, in the case in which user authentication based upon authentication information peculiar to a user read by said first reader is successful, performs control such that issuance of the print job by the job issuing unit is made possible; and

a writer which, in response to the issuance of the print job by said print job issuing unit, writes job designation information peculiar to the print job returned from said printing device in the detachable storage medium, and

wherein said printing device comprises:

a print job server which accepts the print job issued from said information processing apparatus and subjects the print job to print processing and which, in the case in which a suspension attribute is set in the print job, performs control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information replier which, in response to acceptance of the print job issued from said information processing apparatus, replies job designation information peculiar to the print job to said information processing apparatus;

a second reader which reads data of a detachable storage medium;

a printer authentication controller which, in the case in which user authentication based upon authentication information peculiar to a user read out from the detachable storage medium by said second reader is successful, controls permission to use said printing device; and

a job release controller which, in the case in which job designation information peculiar to the print job in a suspended state is stored in the detachable storage medium, reads out the job designation information and performs control such that an instruction to release suspension of job processing is issued to said print job server.

19. (Currently amended) A control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a client authenticating step of, in the case in which user authentication based upon authentication information peculiar to the user read in said reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job based upon the control in said client authenticating step; and

a writing step of, ~~in response to issuance of the print job,~~ writing job designation information peculiar to the print job returned from the printing device in response to issuance of the print job, in the detachable storage medium.

20. (Currently amended) A control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job; and

a writing step of, ~~in response to issuance of the print job,~~ writing a Job-URI specifying the print job returned from the printing device in response to issuance of the print job, in the detachable storage medium.

21. (Original) A control method for a printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to printing process, comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning job designation information peculiar to the print job to the information processing apparatus;

a reading step of reading out authentication information peculiar to the user from a detachable storage medium;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which the job designation information peculiar to the suspended print job is stored in the detachable storage medium, issuing an instruction to release suspension of job processing based upon the job designation information; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

22. (Original) A control method for a printing device according to Claim 21, further comprising a job designation information deleting step of, after ending the print processing of the print job in said printing step, deleting the job designation information peculiar to the print job from the detachable storage medium.

23. (Original) A control method for a printing device according to Claim 21, further comprising a print job deleting step of, after ending the print processing of the print job in said printing step, deleting the print job.

24. (Original) A control method for a printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to printing process, comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a Job-URI returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning a Job-URI specifying the print job to the information processing apparatus;

a job processing suspension release issuing step of, in the case in which the Job-URI is stored in a detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

25. (Original) A printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a predetermined network and instructing remote printing, and a printing device which is capable of subjecting the

print job issued from the information processing apparatus to remote print processing, said printing method comprising:

a first reading step of reading authentication information peculiar to a user from a detachable storage medium in the information processing apparatus;

a client authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read in said first reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device based upon the control in said client authenticating step;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in the print job issuing step, returning job designation information peculiar to the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the job designation information peculiar to the print job returned from the printing device to the information processing apparatus in the detachable storage medium;

a second reading step of reading authentication information peculiar to the user from the detachable storage medium in the printing device;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the job designation information and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

26. (Original) A printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a predetermined network and instructing remote printing, and a printing device which is capable of subjecting the print job issued from the information processing apparatus to remote print processing, said printing method comprising:

a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in said print job issuing step, returning a Job-URI specifying the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the Job-URI returned from the printing device to the information processing apparatus in the detachable storage medium;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of executing print processing of the print job held in the suspended state based upon the instruction for releasing suspension of job processing.

27. (Currently amended) A program stored in a computer-readable storage medium for executing a control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, said control method comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a client authenticating step of, in the case in which user authentication based upon authentication information peculiar to the user read in said reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job based upon the control in said client authenticating step; and

a writing step of, ~~in response to issuance of the print job,~~ writing job designation information peculiar to the print job returned from the printing device in response to issuance of the print job in the detachable storage medium.

28. (Currently amended) A program stored in a computer-readable storage medium for executing a control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, said control method comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job; and

a writing step of, ~~in response to issuance of the print job,~~ writing a Job-URI specifying the print job returned from the printing device in response to issuance of the print job, in the detachable storage medium.

29. (Currently amended) A program stored in a computer-readable storage medium for executing a control method for a printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to printing process, said control method comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning job designation information peculiar to the print job to the information processing apparatus;

a reading step of reading out authentication information peculiar to the user from a detachable storage medium;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which the job designation information peculiar to the suspended print job is stored in the detachable storage medium, issuing an instruction to release suspension of job processing based upon the job designation information; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

30. (Currently amended) A program stored in a computer-readable storage medium for executing a control method for a printing device capable of subjecting a print job, which is issued from an information processing apparatus via a predetermined network, to printing process, said control method comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a Job-URI returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning a Job-URI specifying the print job to the information processing apparatus;

a job processing suspension release issuing step of, in the case in which the Job-URI is stored in a detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

31. (Currently amended) A program stored in a computer-readable storage medium for executing a printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a predetermined network and instructing remote printing and a printing device which is capable of subjecting the print job issued from the information processing apparatus to remote print processing, said printing method comprising:

a first reading step of reading authentication information peculiar to a user from a detachable storage medium in the information processing apparatus;

a client authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read in the first reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device based upon the control in said client authenticating step;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in said print job issuing step, returning job designation information peculiar to the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the job designation information peculiar to the print job returned from the printing device to the information processing apparatus in the detachable storage medium;

a second reading step of reading authentication information peculiar to the user from the detachable storage medium in the printing device;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the job designation information and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

32. (Currently amended) A program stored in a computer-readable storage medium for executing a printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a predetermined network and instructing remote printing, and a printing device which is capable of subjecting the

print job issued from the information processing apparatus to remote print processing, said printing method comprising:

- a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device;

- a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in said print job issuing step, returning a Job-URI specifying the print job to the information processing apparatus;

- a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

- a writing step of writing the Job-URI returned from the printing device to the information processing apparatus in the detachable storage medium;

- a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

- a printing step of executing print processing of the print job held in the suspended state based upon the instruction for releasing suspension of job processing.

33. (Currently amended) A computer-readable storage medium to which there is stored a program for executing a control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, said control method comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a client authenticating step of, in the case in which user authentication based upon authentication information peculiar to the user read in said reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job based upon the control in said client authenticating step; and

a writing step of, ~~in response to issuance of the print job,~~ writing job designation information peculiar to the print job returned from the printing device in response to issuance of the print job, in the detachable storage medium.

34. (Currently amended) A computer-readable storage medium to which there is stored a program for executing a control method for an information processing apparatus which is capable of instructing a printing device to execute a print job via a predetermined network, said control method comprising:

a reading step of reading authentication information peculiar to a user from a detachable storage medium;

a print job issuance step of issuing a print job to the printing device with a suspension attribute set to the print job; and

a writing step of, ~~in response to issuance of the print job,~~ writing a Job-URI specifying the print job returned from the printing device in response to issuance of the print job in the detachable storage medium.

35. (Original) A computer-readable storage medium to which there is stored a program for executing a control method for a printing device capable of subjecting a print job which is issued from an information processing apparatus via a predetermined network, to printing process, said control method comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning job designation information peculiar to the print job to the information processing apparatus;

a reading step of reading out authentication information peculiar to the user from a detachable storage medium;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which the job designation information peculiar to the suspended print job is stored in the detachable storage medium, issuing an instruction to release suspension of job processing based upon the job designation information; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

36. (Original) A computer-readable storage medium to which there is stored a program for executing a control method for a printing device capable of subjecting a print job which is issued from an information processing apparatus via a predetermined network, to printing process, said control method comprising:

a print job holding step of, in the case in which a suspension attribute is set in the print job issued from the information processing apparatus, performing control such that the print processing is suspended and held until release of suspension of job processing is instructed;

a Job-URI returning step of, in response to acceptance of the print job issued from the information processing apparatus, returning a Job-URI specifying the print job to the information processing apparatus;

a job processing suspension release issuing step of, in the case in which the Job-URI is stored in a detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

37. (Original) A computer-readable storage medium to which there is stored a program for executing a printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a predetermined network and instructing remote printing and a printing device which is capable of subjecting the print job issued from the information processing apparatus to remote print processing, said printing method comprising:

a first reading step of reading authentication information peculiar to a user from a detachable storage medium in the information processing apparatus;

a client authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read in said first reading step is successful, performing control such that issuance of a print job is made possible;

a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device based upon the control in said client authenticating step;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in said print job issuing step, returning job designation information peculiar to the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the job designation information peculiar to the print job returned from the printing device to the information processing apparatus in the detachable storage medium;

a second reading step of reading authentication information peculiar to the user from the detachable storage medium in the printing device;

a printer authenticating step of, in the case in which user authentication based upon the authentication information peculiar to the user read out from the detachable storage medium is successful, controlling permission to use the printing device;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the job designation information and issuing an instruction to release suspension of job processing; and

a printing step of, in response to the release of suspension of job processing, executing print processing of the print job held in the suspended state.

38. (Original) A computer-readable storage medium to which there is stored a program for executing a printing method for a printing system which has an information processing apparatus capable of issuing a print job to a printing device via a predetermined network and instructing remote printing, and a printing device which is capable of subjecting the print job issued from the information processing apparatus to remote print processing, said printing method comprising:

a print job issuing step of issuing a print job with a suspension attribute set to the print job to the printing device;

a job designation information returning step of, in response to acceptance of the print job issued from the information processing apparatus in said print job issuing step, returning a Job-URI specifying the print job to the information processing apparatus;

a print job holding step of, in the case in which the suspension attribute is set in the print job issued to the printing device from the information processing apparatus, performing control such that the print job is held until release of suspension of job processing is instructed;

a writing step of writing the Job-URI returned from the printing device to the information processing apparatus in the detachable storage medium;

a job processing suspension release issuing step of, in the case in which job designation information peculiar to the suspended print job is stored in the detachable storage medium, reading out the Job-URI and issuing an instruction to release suspension of job processing; and

a printing step of executing print processing of the print job held in the suspended state based upon the instruction for releasing suspension of job processing.